

1. Project Overview:

- **Base URL:** http://localhost:8000/api
- **Authentication:** Laravel Sanctum is used for API authentication. This means you'll need to obtain an API token (access_token) by registering and logging in. This token must be included in the Authorization header of subsequent requests.
- **Roles:** You have three roles: admin, gestionnaire, and chauffeur. Certain API endpoints are protected by middleware based on these roles.

2. Authentication (Register and Login):

- **Route:** POST /api/register
 - **Description:** Registers a new user and returns an API token.
 - **Body (Raw JSON):**

```
{
  "name": "Test User",
  "email": "test@example.com",
  "password": "password",
  "password_confirmation": "password",
  "role": "chauffeur"
}

*   **Headers:**
*   `Content-Type`: `application/json`
*   `Accept`: `application/json`
*   **Response (Success - 200 OK):**

{
  "data": {
    "id": 5,
    "name": "Test User",
    "email": "test@example.com",
    "role": "chauffeur",
    "updated_at": "2024-01-01T12:00:00.000000Z",
    "created_at": "2024-01-01T12:00:00.000000Z"
  },
  "access_token": "1|abcdefghijklmnopqrstuvwxyz0123456789",
  "token_type": "Bearer"
}
```

Use code [with caution](#).Json

- **Save the access_token for future requests.**
- **Route:** POST /api/login
 - **Description:** Logs in an existing user and returns an API token.
 - **Body (Raw JSON):**

```
{
  "email": "test@example.com",
```

```

    "password": "password"
  }

  *    **Headers:**
  *    `Content-Type`: `application/json`
  *    `Accept`: `application/json`

*    **Response (Success - 200 OK):**
    (Same format as register response - includes `access_token`)

```

- **Route:** POST /api/logout
 - **Description:** Logs out the currently authenticated user, invalidating their token.
 - **Headers:**
 - Content-Type: application/json
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Response (Success - 200 OK):**

```

{
  "message": "Successfully logged out"
}

```

3. Vehicles API:

- **Route:** GET /api/vehicules
 - **Description:** Retrieves a list of all vehicles.
 - **Authorization:** Requires authentication. All roles can access (assuming you don't have specific role restrictions).
 - **Headers:**
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Response (Success - 200 OK):**

```

[
  {
    "id": 1,
    "marque": "Toyota",
    "model": "Camry",
    "nom_proprietaire": "John Doe",
    "created_at": "2024-01-01T10:00:00.000000Z",
    "updated_at": "2024-01-01T10:00:00.000000Z"
  },
  {
    "id": 2,
    "marque": "Honda",
    "model": "Civic",

```

```

        "nom_proprietaire": "Jane Smith",
        "created_at": "2024-01-01T10:00:00.000000Z",
        "updated_at": "2024-01-01T10:00:00.000000Z"
    }
]

```

- **Route:** POST /api/vehicules
 - **Description:** Creates a new vehicle.
 - **Authorization:** Requires authentication. All roles can access (assuming you don't have specific role restrictions).
 - **Headers:**
 - Content-Type: application/json
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Body (Raw JSON):**

```

{
  "marque": "Ford",
  "model": "F-150",
  "nom_proprietaire": "David Brown"
}

```

Use code [with caution](#).Json

```
* **Response (Success - 201 Created):**
```

Use code [with caution](#).

```

{
  "id": 3,
  "marque": "Ford",
  "model": "F-150",
  "nom_proprietaire": "David Brown",
  "created_at": "2024-01-01T12:30:00.000000Z",
  "updated_at": "2024-01-01T12:30:00.000000Z"
}

```

Use code [with caution](#).Json

- **Route:** GET /api/vehicules/{id} (Replace {id} with the vehicle ID)
 - **Description:** Retrieves a specific vehicle.
 - **Authorization:** Requires authentication.
 - **Headers:**
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Response (Success - 200 OK):**

```

{
  "id": 1,
  "marque": "Toyota",

```

```

    "model": "Camry",
    "nom_proprietaire": "John Doe",
    "created_at": "2024-01-01T10:00:00.000000Z",
    "updated_at": "2024-01-01T10:00:00.000000Z"
  }

```

Use code [with caution](#).Json

- **Route:** PUT /api/vehicules/{id} (Replace {id} with the vehicle ID)
 - **Description:** Updates a specific vehicle.
 - **Authorization:** Requires authentication.
 - **Headers:**
 - Content-Type: application/json
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Body (Raw JSON):**

```

{
  "marque": "Toyota Updated",
  "model": "Camry Updated",
  "nom_proprietaire": "John Doe Updated"
}

```

Use code [with caution](#).Json

```
* **Response (Success - 200 OK):**
```

Use code [with caution](#).

```

{
  "id": 1,
  "marque": "Toyota Updated",
  "model": "Camry Updated",
  "nom_proprietaire": "John Doe Updated",
  "created_at": "2024-01-01T10:00:00.000000Z",
  "updated_at": "2024-01-01T12:45:00.000000Z"
}

```

Use code [with caution](#).Json

- **Route:** DELETE /api/vehicules/{id} (Replace {id} with the vehicle ID)
 - **Description:** Deletes a specific vehicle.
 - **Authorization:** Requires authentication.
 - **Headers:**
 - Accept: application/json
 - Authorization: Bearer YOUR_ACCESS_TOKEN (Replace YOUR_ACCESS_TOKEN)
 - **Response (Success - 204 No Content):** (Empty response body)

4. Interventions API:

- **Route:** GET /api/interventions

- **Route:** POST /api/interventions
- **Route:** GET /api/interventions/{id}
- **Route:** PUT /api/interventions/{id}
- **Route:** DELETE /api/interventions/{id}

(Follow the same pattern as Vehicles. The body parameters will correspond to the fillable attributes in the Intervention model.)

Example of POST /api/interventions body (Raw JSON):

```
{
  "nature_intervention": "Oil Change",
  "duree_intervention": 60,
  "date_debut_intervention": "2024-01-02 09:00:00",
  "vehicule_id": 1,
  "mecanicien_id": 1
}
```

Use code [with caution](#).Json

5. Mecaniciens API:

- **Route:** GET /api/mecaniciens
- **Route:** POST /api/mecaniciens
- **Route:** GET /api/mecaniciens/{id}
- **Route:** PUT /api/mecaniciens/{id}
- **Route:** DELETE /api/mecaniciens/{id}

Example of POST /api/mecaniciens body (Raw JSON):

```
{
  "user_id": 2
}
```

Use code [with caution](#).Json

6. Chauffeurs API:

- **Route:** GET /api/chauffeurs
- **Route:** POST /api/chauffeurs
- **Route:** GET /api/chauffeurs/{id}
- **Route:** PUT /api/chauffeurs/{id}
- **Route:** DELETE /api/chauffeurs/{id}

Example of POST /api/chauffeurs body (Raw JSON):

```
{
  "user_id": 3
}
```

Use code [with caution](#).Json

7. PiecesUtilisees API:

- **Route:** GET /api/pieces-utilisees
- **Route:** POST /api/pieces-utilisees
- **Route:** GET /api/pieces-utilisees/{id}
- **Route:** PUT /api/pieces-utilisees/{id}
- **Route:** DELETE /api/pieces-utilisees/{id}

Example of POST /api/pieces-utilisees body (Raw JSON):

```
{
  "fournisseur": "Auto Parts Inc",
  "date_de_montage": "2024-01-02 10:00:00",
  "date_de_changement": "2025-01-02 10:00:00",
  "intervention_id": 1
}
```

Use code [with caution](#).Json

8. Pannes API:

- **Route:** GET /api/pannes
- **Route:** POST /api/pannes
- **Route:** GET /api/pannes/{id}
- **Route:** PUT /api/pannes/{id}
- **Route:** DELETE /api/pannes/{id}

Example of POST /api/pannes body (Raw JSON):

```
{
  "nature": "Flat Tire",
  "details": "Rear left tire punctured",
  "date_de_signalement": "2024-01-02 08:00:00",
  "vehicule_id": 1,
  "chauffeur_id": 1
}
```

Use code [with caution](#).Json

9. EntretienPreventifs API:

- **Route:** GET /api/entretien-preventifs
- **Route:** POST /api/entretien-preventifs
- **Route:** GET /api/entretien-preventifs/{id}
- **Route:** PUT /api/entretien-preventifs/{id}
- **Route:** DELETE /api/entretien-preventifs/{id}

Example of POST /api/entretien-preventifs body (Raw JSON):

```
{
  "intervention_id": 1,
  "date_planifiee": "2024-02-01",
  "description": "Scheduled oil change and filter replacement",
  "status": "planifie",
  "cout_estime": 150.00
}
```

```
php artisan make:model User -m
php artisan make:model Vehicule -m
php artisan make:model Intervention -m
php artisan make:model Mecanicien -m
php artisan make:model Chauffeur -m
php artisan make:model PiecesUtilisees -m
php artisan make:model Pannes -m
php artisan make:model EntretienPreventif -m
```

```
php artisan make:controller Api/VehiculeController --api
php artisan make:controller Api/InterventionController --api
php artisan make:controller Api/MecanicienController --api
php artisan make:controller Api/ChauffeurController --api
php artisan make:controller Api/PiecesUtiliseesController --api
php artisan make:controller Api/PannesController --api
php artisan make:controller Api/EntretienPreventifController --api
```